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What is AES encryption?

In cryptography, the Advanced Encryption Standard (AES) is an encryption standard adopted by the U.S. government. The standard comprises three block ciphers, AES-128, AES-192 and AES-256, adopted from a larger collection originally published as Rijndael. Each AES cipher has a 128-bit block size, with key sizes of 128, 192 and 256 bits, respectively. The AES ciphers have been analyzed extensively and are now used worldwide, as was the case with its predecessor, the Data Encryption Standard (DES).

AES was announced by National Institute of Standards and Technology (NIST) as U.S. FIPS PUB 197 (FIPS 197) on November 26, 2001 after a 5-year standardization process in which fifteen competing designs were presented and evaluated before Rijndael was selected as the most suitable (see Advanced Encryption Standard process for more details). It became effective as a standard May 26, 2002. As of 2009, AES is one of the most popular algorithms used in symmetric key cryptography.[citation needed] It is available in many different encryption packages. AES is the first publicly accessible and open cipher approved by the NSA for top secret information.

The Rijndael cipher was developed by two Belgian cryptographers, Joan Daemen and Vincent Rijmen, and submitted by them to the AES selection process. Rijndael is a portmanteau of the names of the two inventors.

This article are excerpts from wikipedia, the free encyclopedia

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System Requirements

- Pentium computers or 100% compatible computers.
- Support OS: Microsoft Windows 2000 / XP / Vista / 7 (Except 64bits)
- CPU Pentium or above.
- 128 MB RAM.
- USB 1.1 / 2.0 / 3.0
- An external USB hard disk.

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Partition structure in USB HDD

After setup SecureDriveEX, your USB HDD will partition as below.

AP	There are "autorun" program inside. When plug in USB HDD to computer, it will auto run the SecureDriveEX program. If not auto run, user can double click "autorun" program by itself.

PUBLIC	This partition is public area. It's let users put the files not important. All files in this area will not encryption.

SECURITY	This partition is security area. It's hidden before pass the correct password. Users can save the important files in this drive. All files in this area will encrypt by AES.

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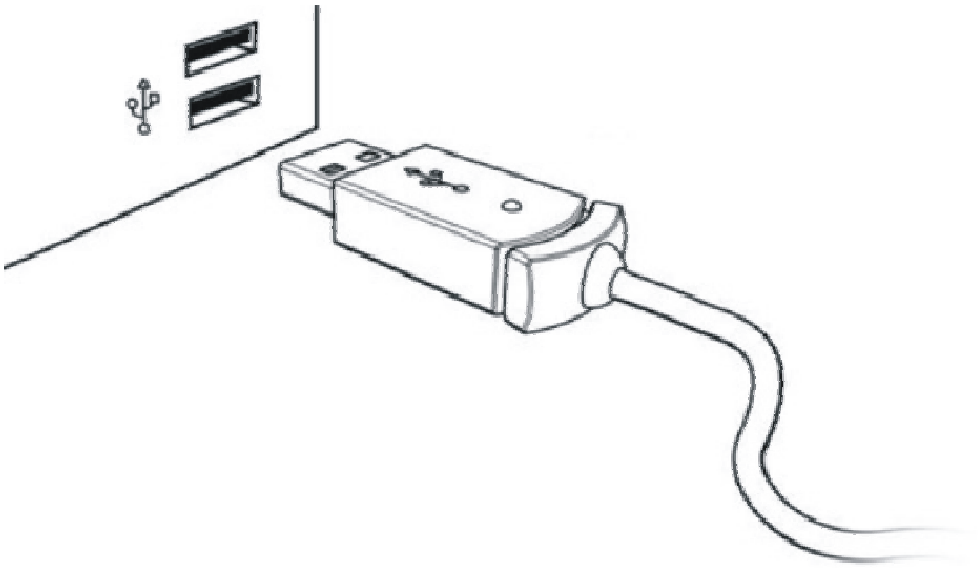
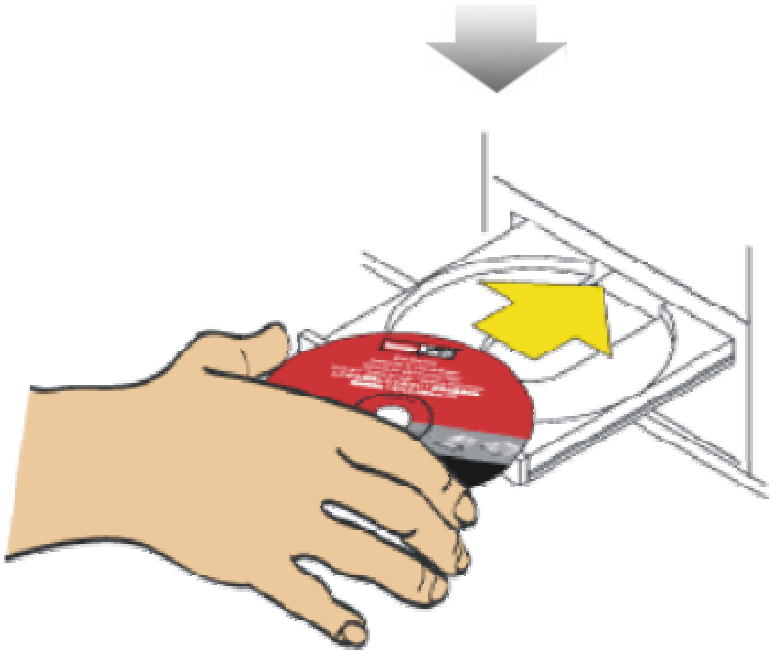
Setup (How to make USB device become to a security drive)



1. Connect the USB HDD to the computer.



2. Insert SecureDriveEX installation CD.
3. A few seconds a dialogue window will appear and tell you what to do next
4. You also can use browser and click the CD-drive icon in My Computer to execute the "Setup.exe".

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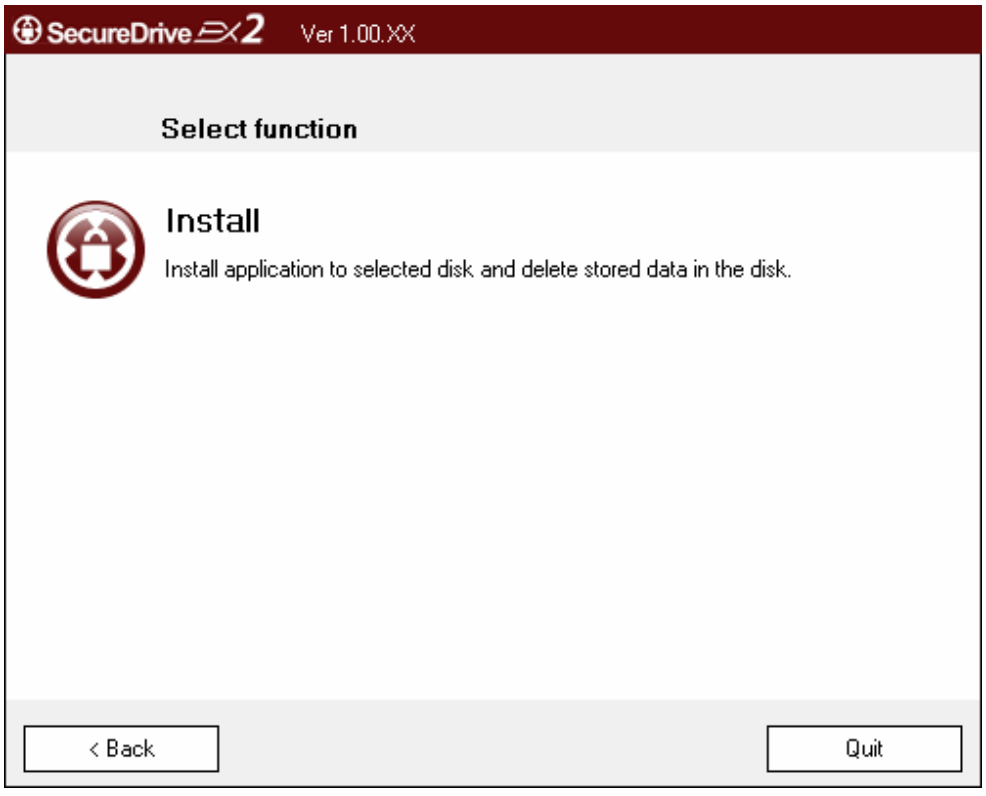
5. Access SecureDrive EX2 Wizard, you can select the language and the external hard drive you want to install.

6. After that, please click 「Next」 to the next installation step.



6. Click "Install" Option icon.

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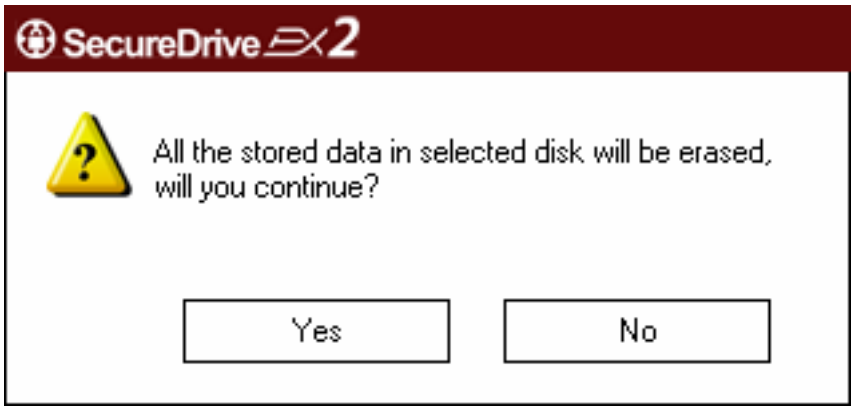

5. Attention: All the data in the hard disk will be deleted when you are partitioning your USB HDD.

   Click "Yes" for your confirmation.

6. Installation process.

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SecureDrive EX2
Ver 1.00.XX
Installation is completed !
SecureDrive EX2
USB HDD is safe removed,
please unplug the USB HDD from your PC, and then plug-in again.
Done

7. After finished the first step format, it will automatically to safe removed USB HDD.

8. please click the "Done" button and unplug your external hard drive. Then reconnect it to your computer again.

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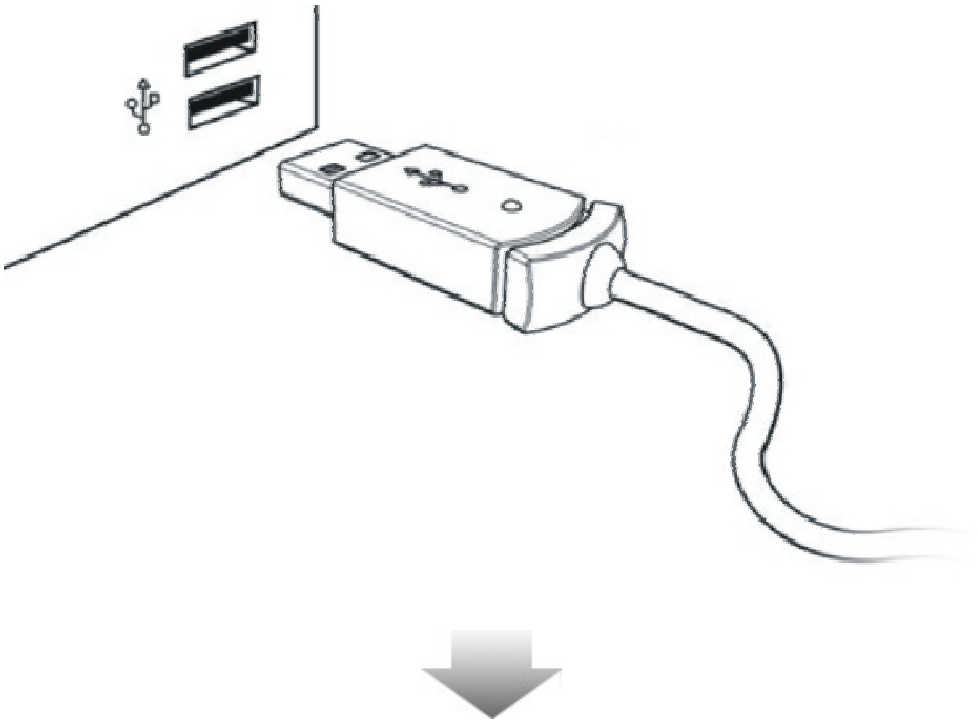
First Time Start-Up (How to make USB device become to a security drive)



1. Connecting the USB HDD to the computer.

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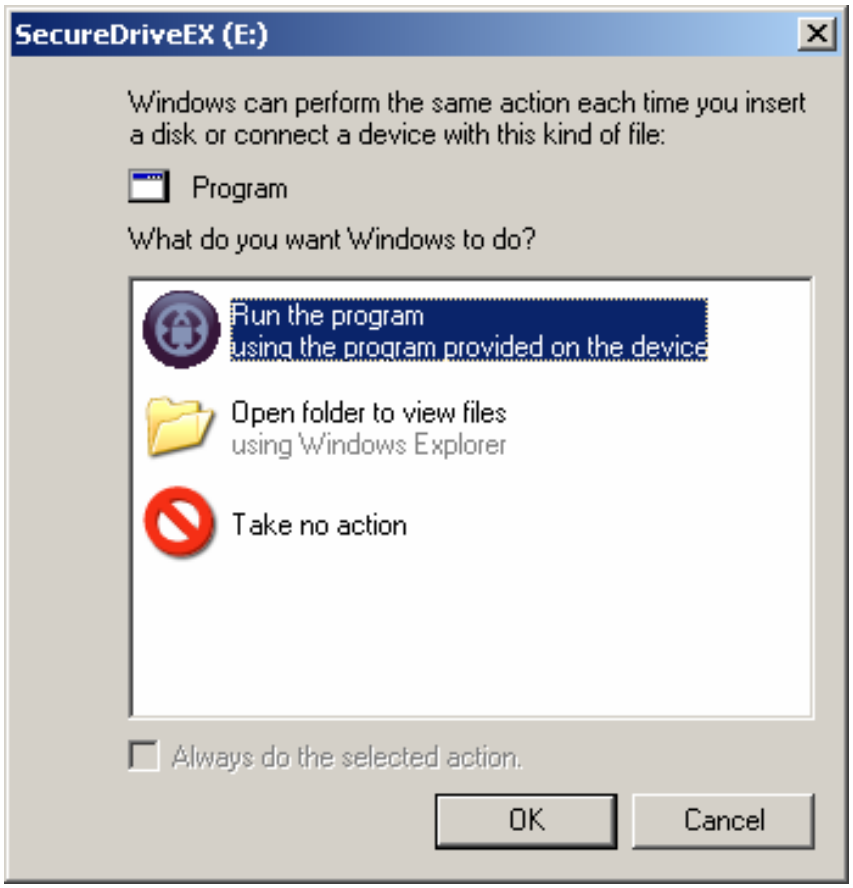
SecureDriveEX (E:)
Windows can perform the same action each time you insert a disk or connect a device with this kind of file:
Program
What do you want Windows to do?
Run the program using the program provided on the device
Open folder to view files using Windows Explorer
Take no action
Always do the selected action.
OK
Cancel

2. A few seconds after your USB HDD plug-in, a dialogue window will appear and then click "OK" to finish the installation.

2. Access SecureDrive EX2 Wizard, and read the agreement carefully before installing.

3. Click the「Next」button after accepting the agreement.

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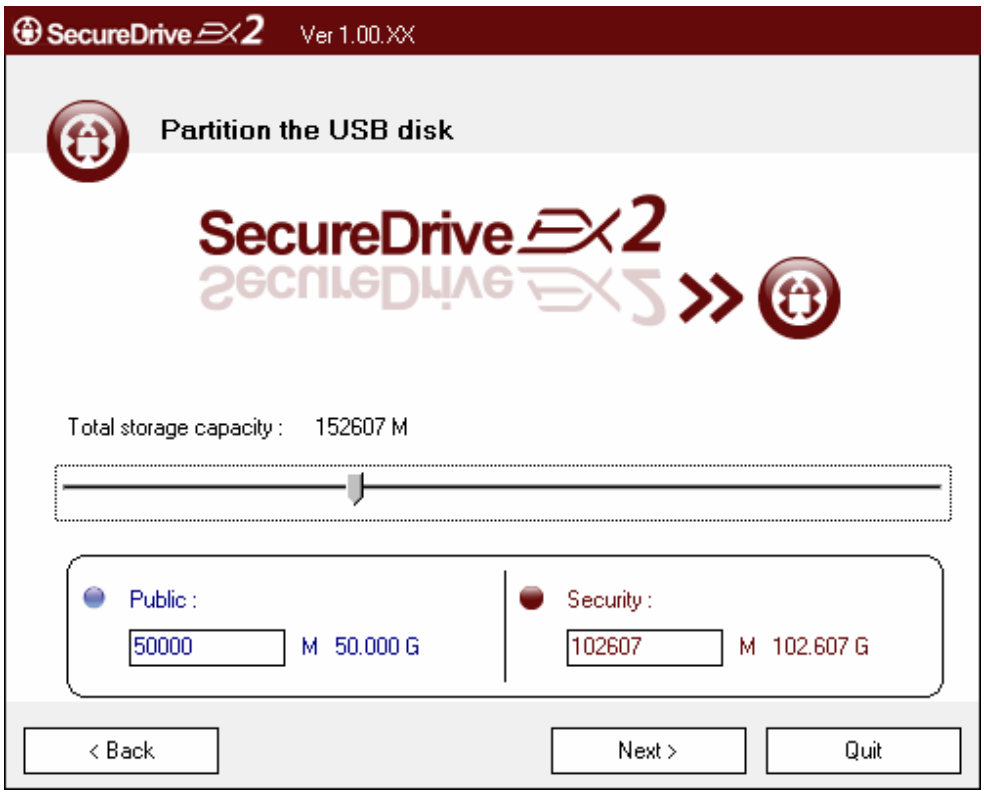
4. Click the "Next" before Find out the attached serial key as the yellow label, and key in the serial number correctly.
Click " Next" for next step.



5. The USB hard disk will be divided into two areas, one is the public area, the other one is security area. The capacities of two areas will be decided and judged by user.
Click " Next" after filling with the capacities to two areas.

* Public area can be set to 0 M, it will no public area after installation.

* Security area can't

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less than 8MB, because the partition limitation.

6. You can choose AES encryption 128, 192, 256bits based on your demand.
7. You can setup password option here, including 「Password hint」, 「Password」, and 「Confirm password」
8. After deciding your password setup, please click 「Next」button to the next step.

9. Attention: All the data in the hard disk will be deleted when you are partitioning your USB HDD.
   Click "Yes" for your confirmation.

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10. Installing.
11. After the installation, please click 「Done」 button to finish it.

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14. SecureDrive EX2 main interface. (The default status is locked, and you have to type the password you set before to show up security disk.)

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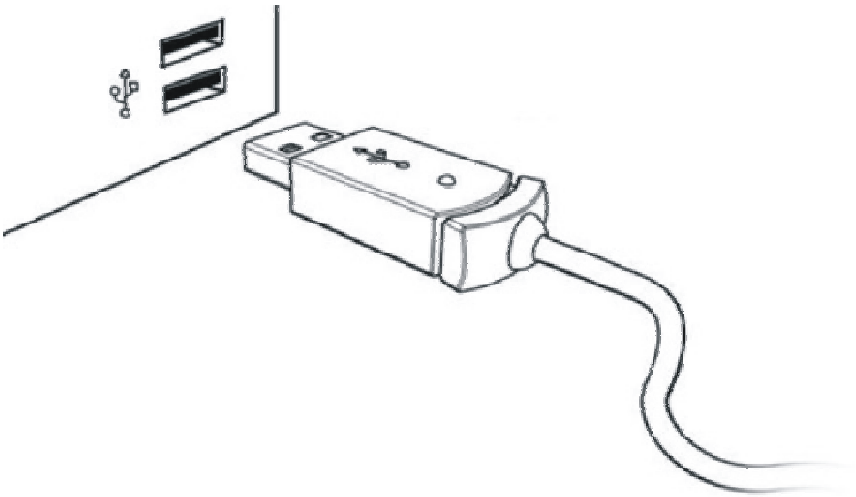
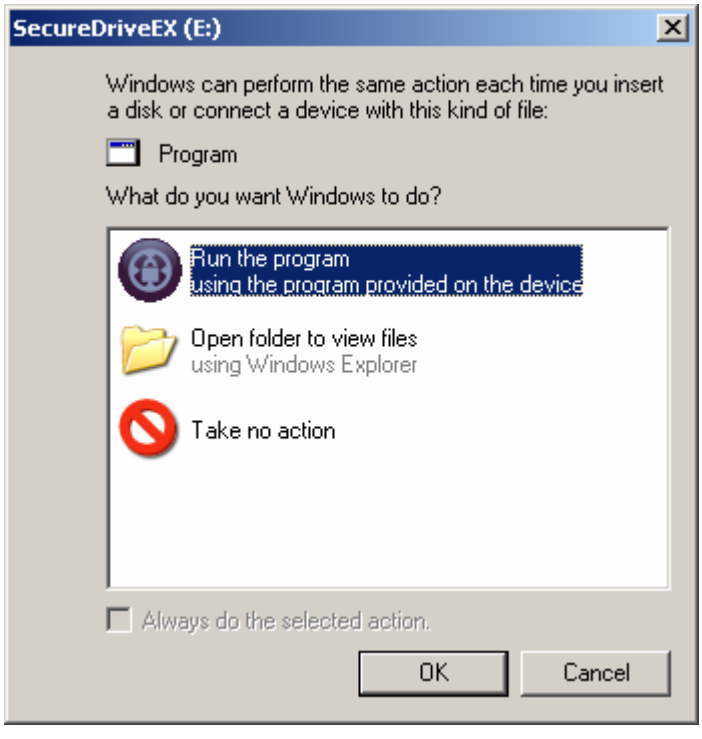
Unlock

Steps



1. Connect the USB HDD to the computer.


SecureDriveEX (E:)
Windows can perform the same action each time you insert a disk or connect a device with this kind of file:
Program
What do you want Windows to do?
Run the program using the program provided on the device
Open folder to view files using Windows Explorer
Take no action
Always do the selected action.
OK
Cancel

2. Some of Windows OS will not auto run SecureDriveEX2. After show out this dialogue window, please select SecureDriveEX2 icon and click "OK".

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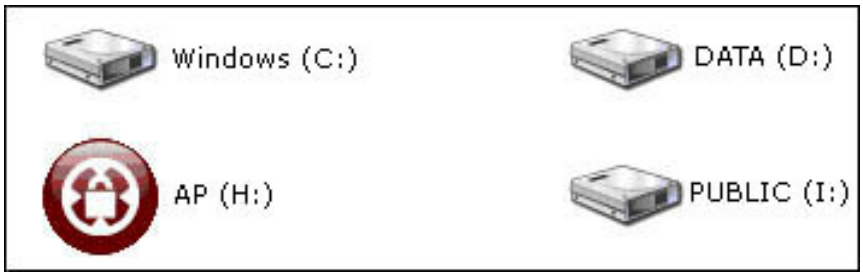

3. Now the security drive is locked, it can not been found from My Computer.

4. After key in the accurate password and click the red "Lock" or "enter" to release the security area.

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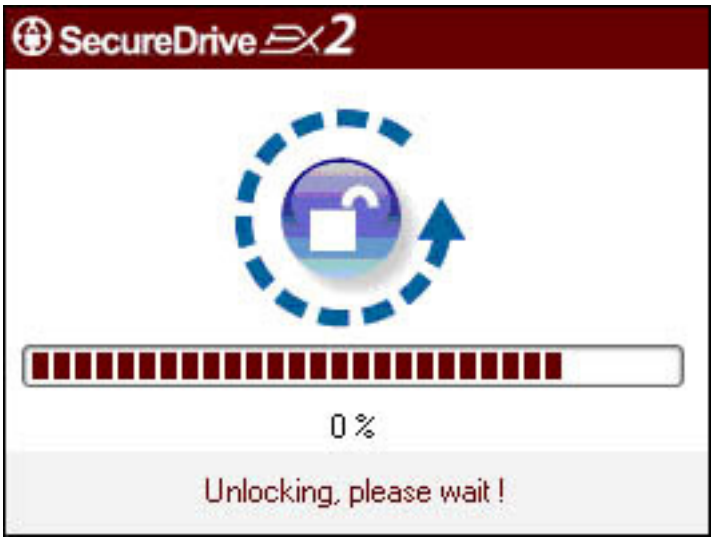

3. It is unlocking now.

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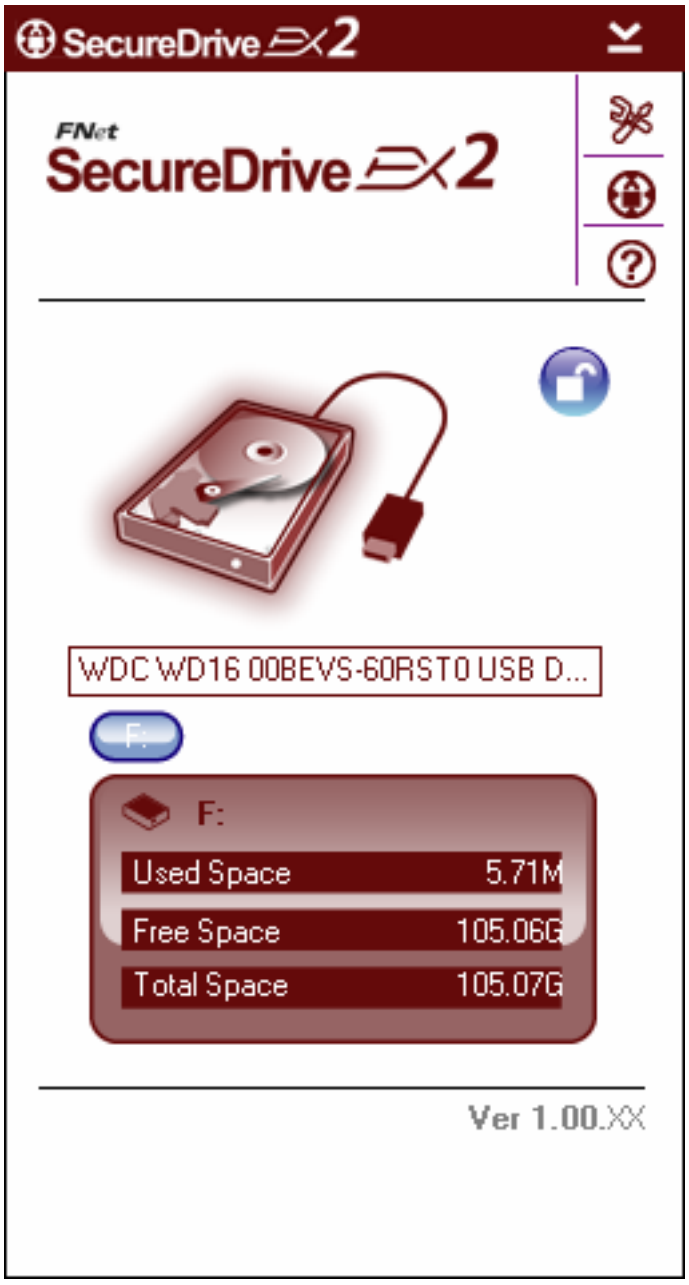
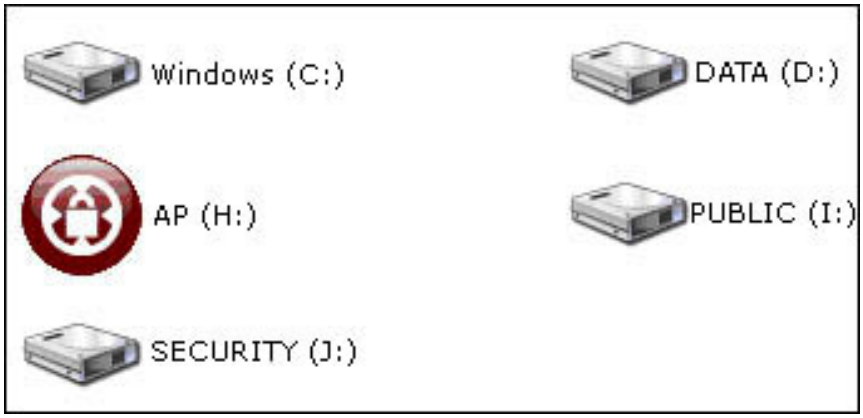


4. The information of hard disk and security area are displayed after unlocking.



5. The drive of "Security" can be seen via My Computer.
6. Every file that you put into security drive is automatically encryption in real time.

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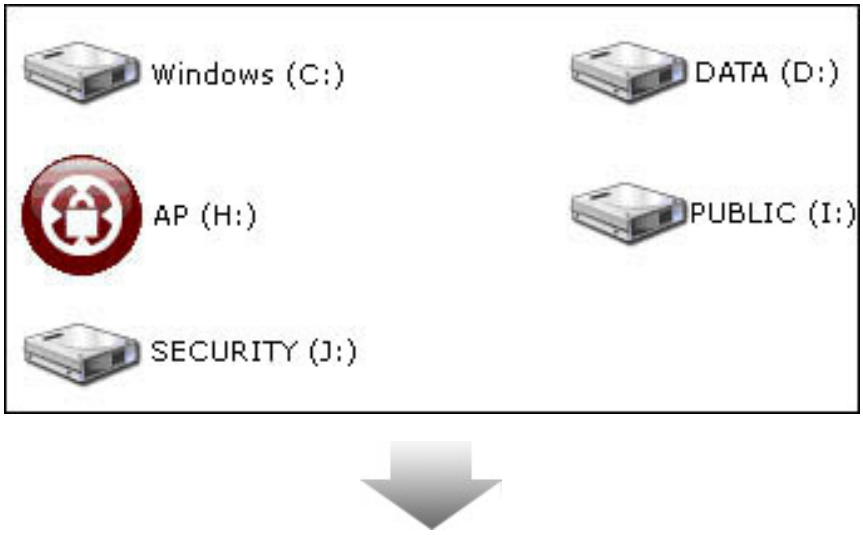
Lock

Steps



1. The security area hasn't been locked; the Security drive is seen obviously from My Computer.

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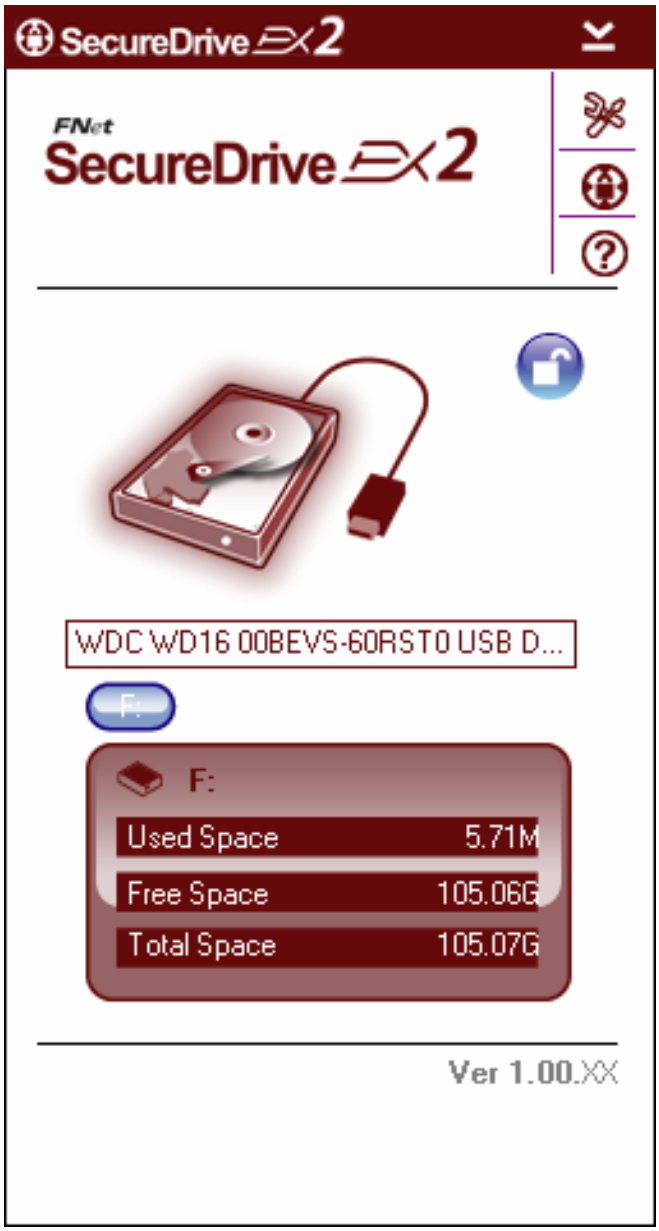
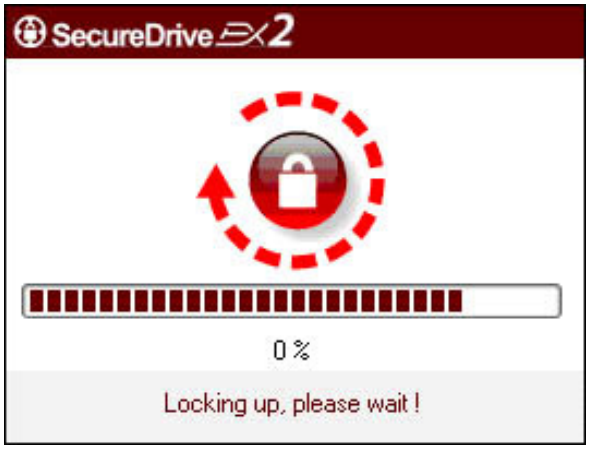


2. Click the "graphic HDD" or the "blue lock" for locking the security area.



3. It is locking now.

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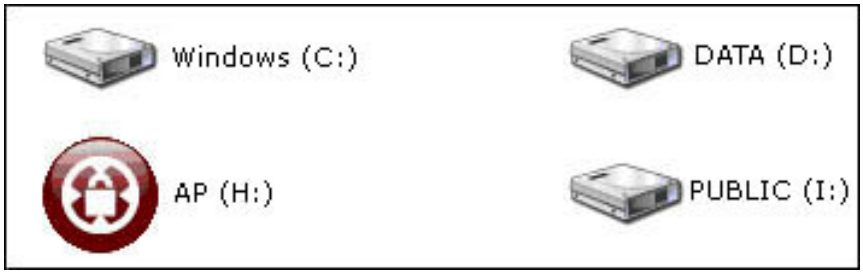
4. The password input request will be displayed after locking the security area.



5. The Security drive cannot be found anymore from My Computer. (The "security area" has been locked now.)

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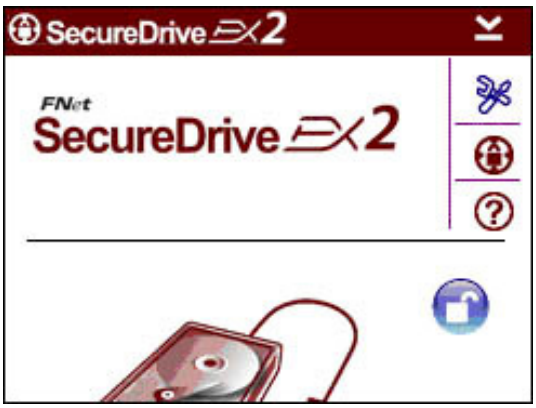
Options

Steps



Click the icon of "Setting" and then access Setting window.

Renew the password

Key in the original password to the Current Password, input the new characters to the New Password and Confirm New Password and click "save" .

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Modify the password hint

Attention: modify the password hint as well as update the password.

Key in the original password to the Current Password, and then input new hint to the Password Hint as well as input the new characters to "New Password" and "Confirm New Password".

And then click "Save".

Language options

Select a language for SecureDrive EX2 interface.

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Forget Password?

Steps

1. Click the "Forget password" !

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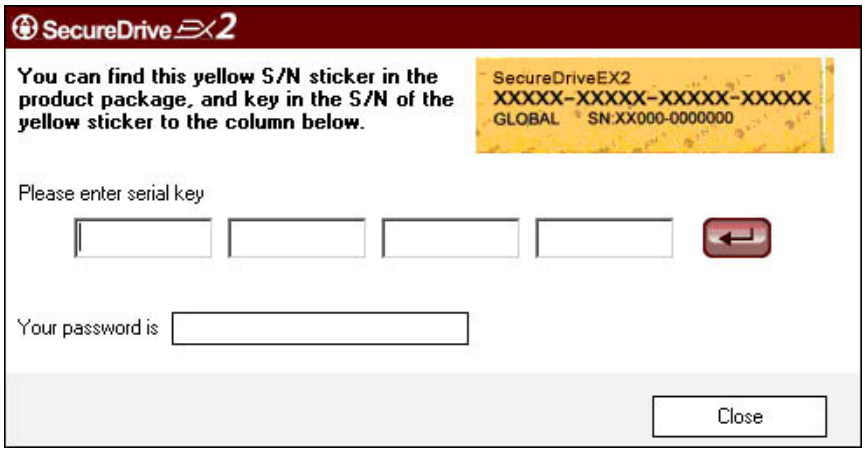
SecureDrive EX2
You can find this yellow S/N sticker in the product package, and key in the S/N of the yellow sticker to the column below.
SecureDriveEX2
XXXXX-XXXXX-XXXXX-XXXXX
GLOBAL SN:XX000-0000000
Please enter serial key
Your password is
Close

2. Enter the S/N on the yellow sticker. (Find out the attached serial key as the yellow label, and key in the serial number correctly.)
3. After entering the correct S/N, your password will show up in the column below.

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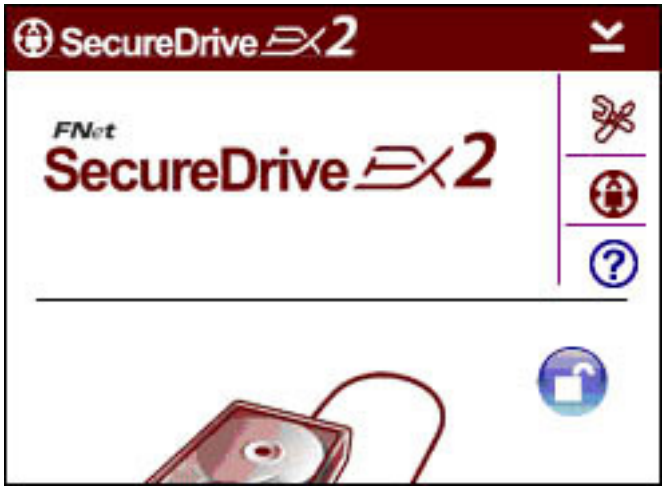
Others

Click the icon of "SecureDriveEX" for the detailed specification.



Click "?" for SecurDrive EX user's guide.

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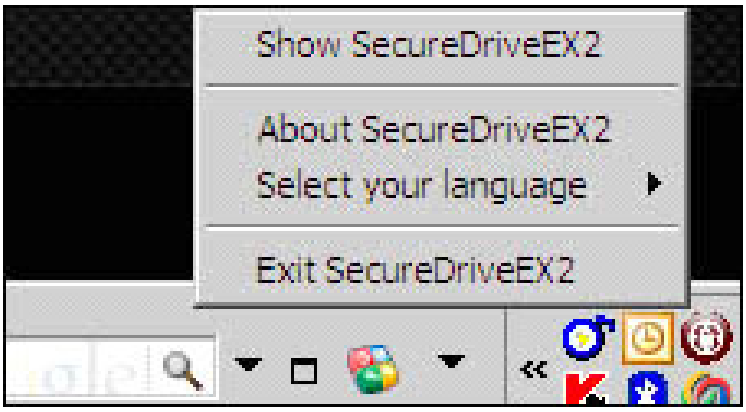

Right-click the icon of SecureDriveEX in the notification area for displaying functional options.

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Safely Remove USB HDD

Steps

1. However the status of locked (red lock) / unlock (blue lock) for the security area, both situations can be Safely Removed the USB HDD.
2. Click the transfer cable to remove the USB HDD.

3. Click "Yes" for removing the USB HDD.

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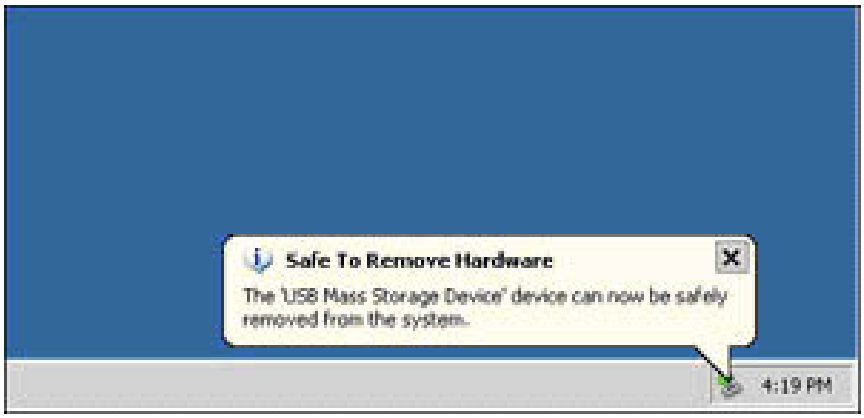

4. The USB HDD has been removed. The transfer cable appears broken.
5. Remove the USB HDD under the status of unlock, the security area will be automatically locked.
6. Due to the USB HDD is safely remove from your computer, if you want to execute SecureDrive EX2 again, please take the USB terminal off and then connect it again.

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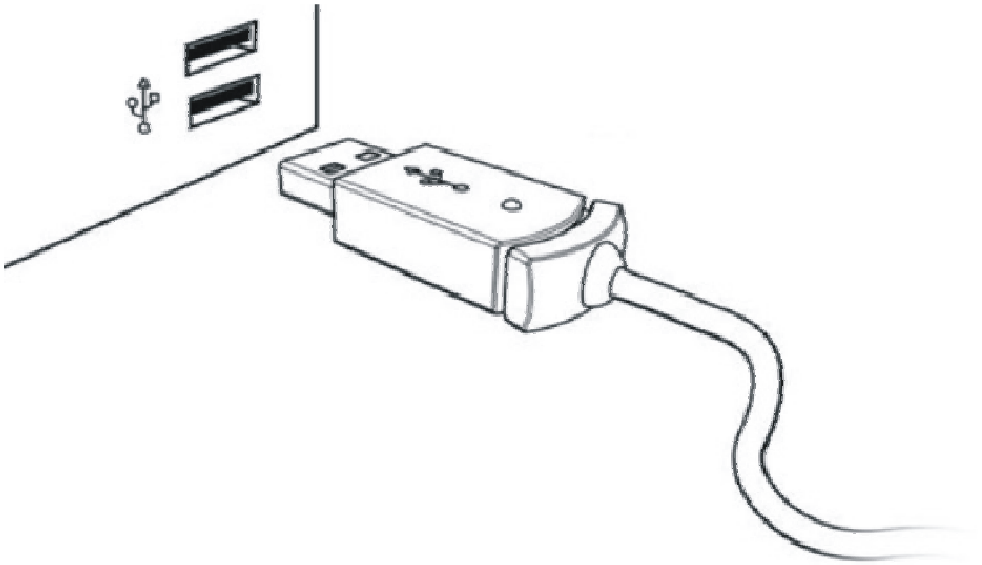
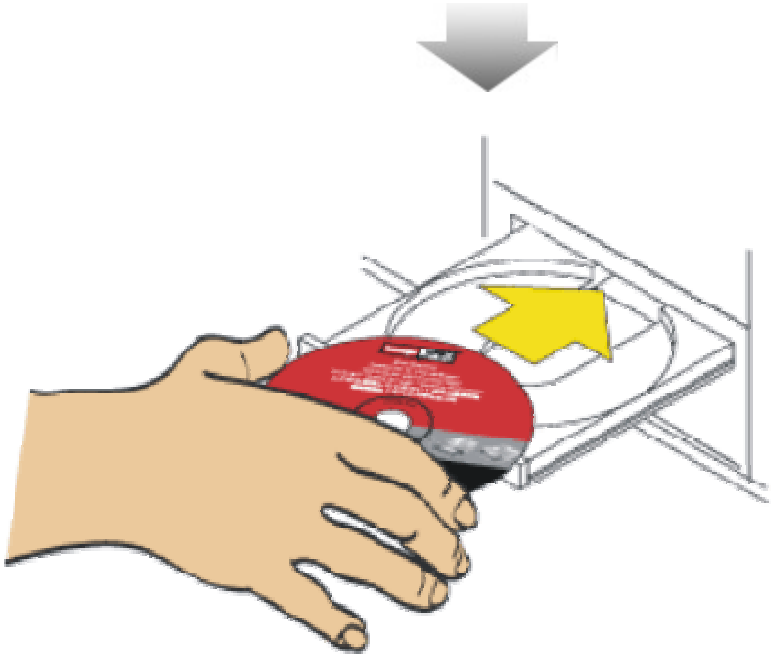
Erase SecureDrive EX2

Steps



1. Connect the USB HDD to the computer.



2. Insert SecureDriveEX installation CD.
3. A few seconds a dialogue window will appear and tell you what to do next
4. You also can use browser and click the CD-drive icon in My Computer to execute the "Setup.exe".

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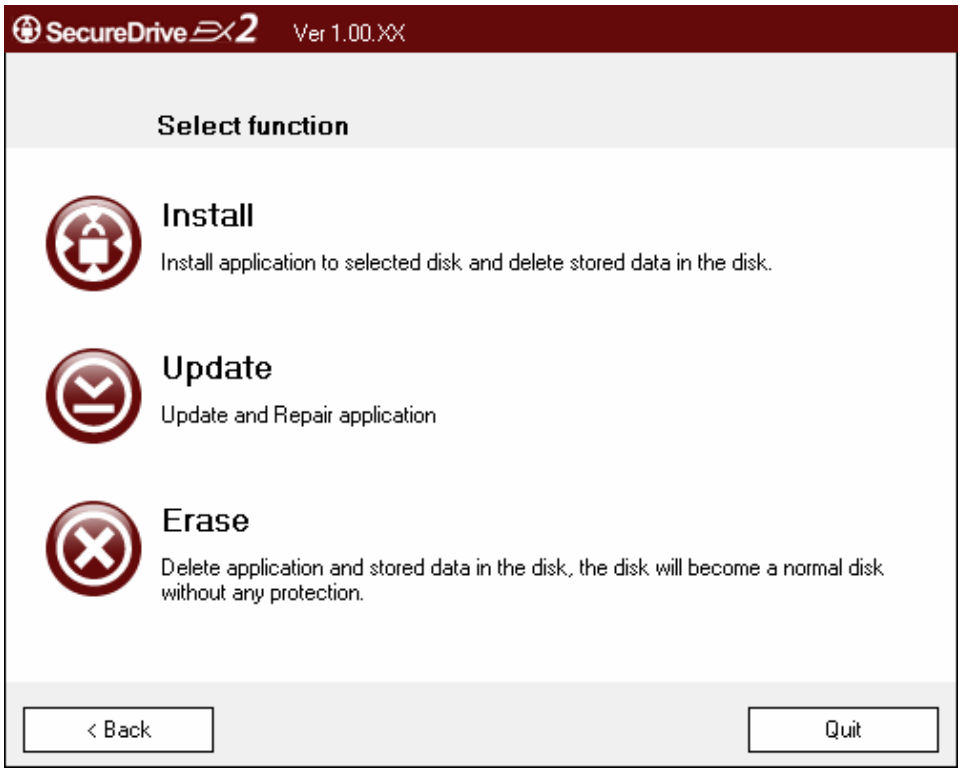
5. Select language and the secure-disk you want to Erase all data and applications to a brand-new USB HDD.
6. After that, please click 「Next」to the next step.


SecureDrive EX2 Ver 1.00.XX
Select function
Install
Install application to selected disk and delete stored data in the disk.
Update
Update and Repair application
Erase
Delete application and stored data in the disk, the disk will become a normal disk without any protection.
< Back
Quit

6. Click "Erase" Option icon.

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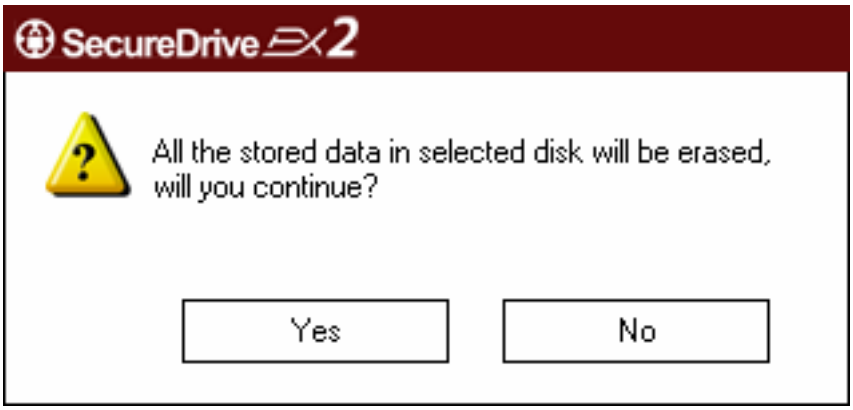

7. Attention: All the data in the USB HDD will be deleted if you uninstall SecureDrive EX2. Click "Yes" for uninstalling SecureDrive EX2.

8. It is erasing now.

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9. Just a few seconds after erase your USB HDD, it will automatically to safe remove your USB HDD.

SecureDrive EX2
Ver 1.00.XX
Erase is compeleted !
SecureDrive EX2
USB HDD is safe removed,
please unplug the USB HDD from your PC, and then plug-in again.
Done

10. SecureDrive EX2 has been erased and safe removed; and then please accord to the follow screen directions.

* If your USB HDD with the power switch, please turn the power off and then turn it on.

* If your USB HDD doesn't have power switch, please unplug the terminal of USB HDD and the connect it again.

When the setting of SecureDrive EX2 is released, the USB HDD will become a normal HDD without any protection.

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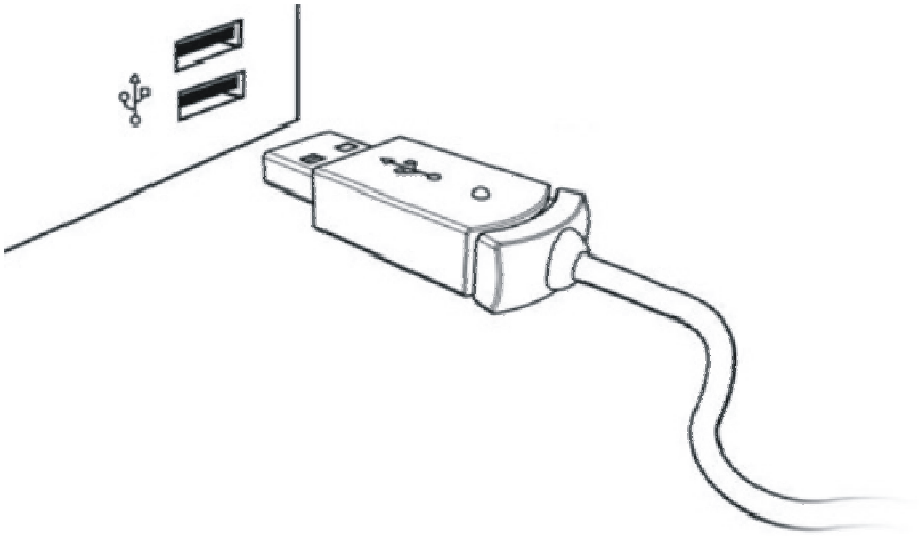
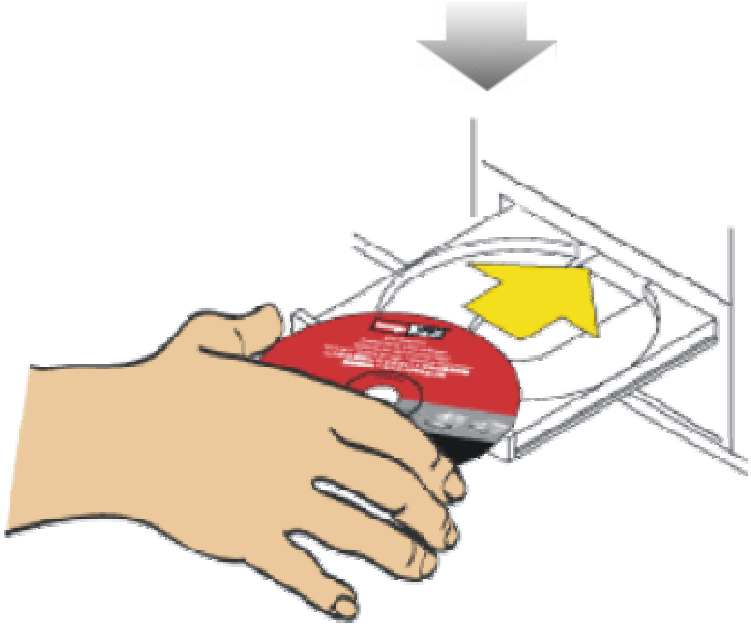
Update SecureDrive EX2

If your application in USB HDD be deleted, or you want to update your applications.

Steps



1. Connect the USB HDD to the computer.



2. Insert SecureDriveEX installation CD.
3. A few seconds a dialogue window will appear and tell you what to do next
4. You also can use browser and click the CD-drive icon in My Computer to execute the "Setup.exe".

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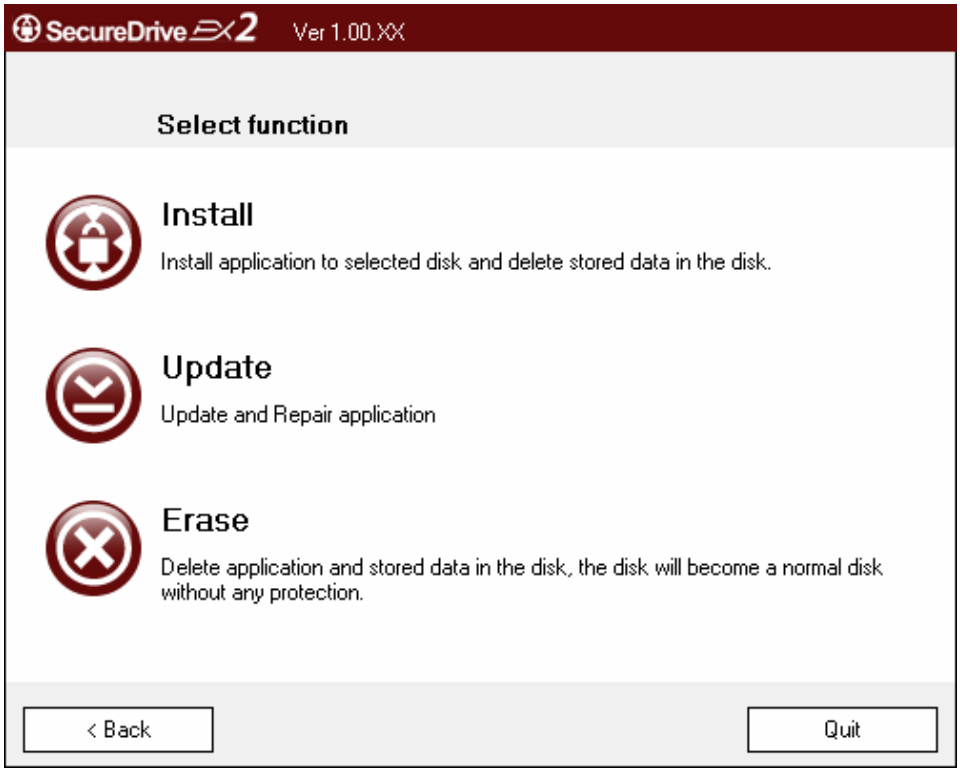
5. Select language and the secure-disk you want to update.


SecureDrive EX2 Ver 1.00.XX
Select function
Install
Install application to selected disk and delete stored data in the disk.
Update
Update and Repair application
Erase
Delete application and stored data in the disk, the disk will become a normal disk without any protection.
< Back
Quit

6. Click "Update" Option icon.

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7. Update software to USB HDD.

8. Auto safe remove USB HDD after update is completed.

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SecureDrive EX2 Ver 1.00.XX
Update is compeleted !
SecureDrive EX2
USB HDD is safe removed,
please unplug the USB HDD from your PC, and then plug-in again.
Done

9. SecureDrive EX2 has been update and safe removed; and then please accord to the follow screen directions.

   * If your USB HDD with the power switch, please turn the power off and then turn it on.

   * If your USB HDD doesn't have power switch, please unplug the terminal of USB HDD and the connect it again.

SecureDrive EX2 Ver 1.00.XX
Update is compeleted !
SecureDrive EX2
Can not remove USB HDD,
please safety remove the USB HDD, and then plug-in again.
Done

10. If USB HDD can't be safe remove, please do safe remove by yourself.

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Contact us

FNet Corp. is a professional R&D software company. Our software solutions bundled and cooperated with many hardware manufacturers. Therefore, FNet is only in charge of software technical problems and what suggestion you want to give FNet. Please see the contact below. Concerning the hardware problem please kindly connect with hardware manufacturers whose contact please refer to the printing box / the registration card of the hardware commodity.

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USA

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This phone number will be switched to Taiwan office, please notice the office time from 9:00 A.M. to 6:00 P.M. of Taipei time (GMT +8), it is the same as L.A. 6:00 P.M. ~ 3:00 A.M., N.Y. 9:00 P.M. ~ 6:00 A.M., or email to agnes@gotofnet.com , we will reply ASAP.About technical problem, please fill with our Tech Support Request .

Others

General Information : service@gotofnet.com

Sales Information : sales@gotofnet.com

Customer Service : For product information and customer assistance : service@gotofnet.com

Feedback : We welcome your feedback and suggestions on our products : support@gotofnet.com

Technical Support : For technical support issues, please initiate a : Tech Support Request

Business Development : Companies or individuals who are interested in partnerships and alliances with FNet, please contact : service@gotofnet.com

Legal Adviser

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Technical Support and Services

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Thank you for purchasing FNet's product. In order to obtain the complete service from FNet, please complete and return the registration card to us, or register on-line. We will use this information to notify you of new product announcements and product upgrades.

Technical Support

For additional information you can visit our website at http://www.GotoFNet.com. If you need technical support, please e-mail your questions to service@gotofnet.com, or fill in Tech Support Request, or our head quarter and branch offices (phone numbers are listed at the last page) for direct assistance. Our professional Customer Support and Technical Support engineers will be glad to provide the service to you.

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